**Supplementary Table A1**: Crop Yield (kg) per sq.m. in SC Plots.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Crop Species** | **Replications** | | | | | | | |
| SC-1 | SC-2 | SC-3 | SC-4 | SC-5 | SC-6 | SC-7 | SC-8 |
| BRINJAL (BR) | 4.00 | 4.54 | 5.37 | 1.33 | 1.63 | 2.85 | 0.95 | 0.73 |
| OKRA (OK) | 8.95 | 7.96 | 7.81 | 1.03 | 3.92 | 5.76 | 5.40 | 3.85 |
| RAGI (FM) | 14.07 | 13.77 | 13.91 | 15.46 | 13.17 | 14.29 | 17.72 | 10.38 |
| PADDY (RC) | 1.48 | 0.62 | 2.75 | 1.37 | 3.50 | 1.74 | 2.66 | 1.72 |
| LITTLE MILLET (LM) | 1.75 | 0.52 | 1.77 | 0.86 | 1.71 | 2.68 | 3.30 | 2.10 |
| GREEN AMARANTH (A1) | 4.91 | 8.64 | 8.69 | 2.86 | 3.41 | 3.91 | 9.42 | 6.35 |
| RED AMARANTH (A2) | 4.42 | 10.99 | 5.44 | 3.49 | 4.51 | 5.16 | 5.18 | 7.25 |

**Supplementary Table A2**: Crop Yield (kg) per sq.m. in Design *A* of MC Plots.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Crop Species** | **Replications** | | | | | | | |
| A-1 | A-2 | A-3 | A-4 | A-5 | A-6 | A-7 | A-8 |
| BRINJAL (BR) | 1.70 | 0.00 | 2.87 | 0.91 | 0.34 | 0.78 | 0.48 | 0.00 |
| OKRA (OK) | 5.34 | 3.95 | 4.85 | 0.29 | 1.02 | 2.86 | 1.83 | 1.99 |
| RAGI (FM) | 0.16 | 0.23 | 0.46 | 0.18 | 0.32 | 0.25 | 0.35 | 0.70 |
| PADDY (RC) | 0.29 | 0.17 | 0.63 | 0.11 | 0.14 | 0.08 | 0.17 | 0.18 |
| LITTLE MILLET (LM) | 0.11 | 0.11 | 0.26 | 0.11 | 0.14 | 0.08 | 0.10 | 0.07 |
| GREEN AMARANTH (A1) | 0.57 | 0.19 | 0.65 | 0.41 | 0.44 | 0.21 | 0.38 | 0.20 |
| RED AMARANTH (A2) | 0.42 | 0.20 | 0.55 | 0.47 | 0.50 | 0.16 | 0.22 | 0.22 |

**Supplementary Table A3**: Crop Yield (kg) per sq.m. in Design *B* of MC Plots.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Crop Species** | **Replications** | | | | | | | |
| B-1 | B-2 | B-3 | B-4 | B-5 | B-6 | B-7 | B-8 |
| BRINJAL (BR) | 2.09 | 1.77 | 2.32 | 1.33 | 0.20 | 0.82 | 0.63 | 0.52 |
| OKRA (OK) | 5.99 | 5.32 | 3.87 | 0.41 | 1.19 | 3.86 | 3.59 | 2.65 |
| RAGI (FM) | 7.10 | 12.58 | 15.18 | 7.01 | 10.15 | 12.40 | 17.29 | 3.61 |
| PADDY (RC) | 0.91 | 0.40 | 1.90 | 0.94 | 5.17 | 1.59 | 2.46 | 1.92 |
| LITTLE MILLET (LM) | 1.16 | 0.46 | 1.30 | 0.84 | 1.06 | 2.63 | 2.88 | 1.01 |
| GREEN AMARANTH (A1) | 3.89 | 5.36 | 5.40 | 3.05 | 5.53 | 3.68 | 5.67 | 2.41 |
| RED AMARANTH (A2) | 4.19 | 6.19 | 5.91 | 3.35 | 5.37 | 3.96 | 3.97 | 2.48 |

**Supplementary Table A4**: Crop Yield (kg) per sq.m. in Design C of MC Plots.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Crop Species** | **Replications** | | | | | | | |
| C-1 | C-2 | C-3 | C-4 | C-5 | C-6 | C-7 | C-8 |
| BRINJAL (BR) | 2.14 | 1.65 | 2.69 | 0.88 | 0.71 | 0.52 | 0.88 | 0.20 |
| OKRA (OK) | 6.97 | 5.27 | 4.31 | 0.34 | 5.48 | 2.68 | 4.85 | 0.93 |
| RAGI (FM) | 17.29 | 17.37 | 12.25 | 6.71 | 10.48 | 5.58 | 16.45 | 3.98 |
| PADDY (RC) | 1.37 | 0.55 | 1.81 | 1.07 | 2.26 | 2.49 | 2.40 | 1.64 |
| LITTLE MILLET (LM) | 1.68 | 0.60 | 1.90 | 1.21 | 1.72 | 2.10 | 2.80 | 2.42 |
| GREEN AMARANTH (A1) | 5.13 | 6.36 | 6.55 | 3.85 | 2.81 | 5.49 | 5.34 | 3.51 |
| RED AMARANTH (A2) | 5.16 | 5.36 | 5.59 | 3.59 | 3.54 | 6.03 | 4.31 | 2.54 |